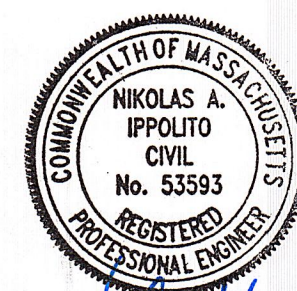


# TURNERS FALLS MUNICIPAL AIRPORT ACADEMIC HANGAR

TURNERS FALLS MUNICIPAL AIRPORT  
TURNERS FALLS, MA 01376

PREPARED FOR  
TURNERS FALLS MUNICIPAL AIRPORT  
1 AVENUE A  
TURNERS FALLS, MA 01376

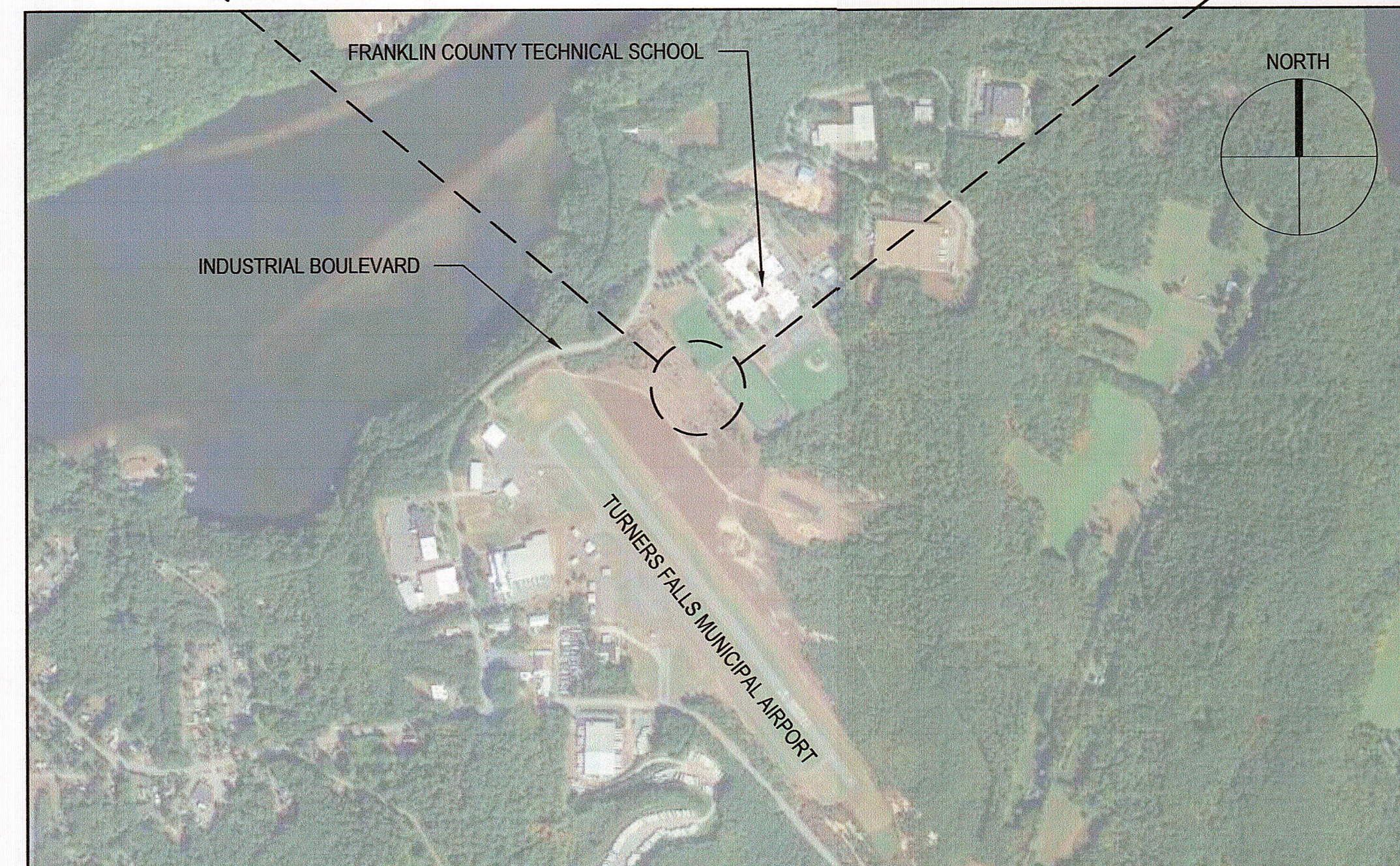
| DRAWING NO. | SHEET NO. | TITLE                                |
|-------------|-----------|--------------------------------------|
| G001        | 1 OF 11   | COVER SHEET                          |
|             | 2 OF 11   | EXISTING CONDITIONS PLAN             |
| C002        | 3 OF 11   | DEMOLITION PLAN                      |
| C101        | 4 OF 11   | SITE PLAN                            |
| C102        | 5 OF 11   | GRADING & DRAINAGE PLAN              |
| C103        | 6 OF 11   | EROSION & SEDIMENTATION CONTROL PLAN |
| C501        | 7 OF 11   | E&S CONTROL NOTES SHEET 1            |
| C502        | 8 OF 11   | E&S CONTROL NOTES SHEET 2            |
| C503        | 9 OF 11   | E&S CONTROL DETAILS                  |
| C504        | 10 OF 11  | CIVIL DETAILS                        |
| A3.10       | 11 OF 11  | FLOOR PLAN                           |



*Nicholas A. Ippolito*  
11/13/2023



**SITE MAP**  
SCALE: N.T.S.



**LOCATION MAP**  
SCALE: N.T.S.



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|  |   |
|--|---|
| PROJECT  | OWNER   |
| ACADEMIC HANGAR<br>TURNERS FALLS MUNICIPAL AIRPORT | TURNERS FALLS MUNICIPAL AIRPORT<br>1 AVENUE A<br>TURNERS FALLS, MASSACHUSETTS 01376 |

| NO.           | DATE        | DESCRIPTION | BY |
|---------------|-------------|-------------|----|
| PROJECT NO.   | 719300      |             |    |
| CADD FILE     | 719300_G001 |             |    |
| DESIGNED BY   | CRR/SMB     |             |    |
| DRAWN BY      | CRR         |             |    |
| CHECKED BY    | SMB         |             |    |
| DATE          | 11/10/23    |             |    |
| DRAWING SCALE | N.T.S.      |             |    |

GRAPHIC SCALE



SHEET TITLE

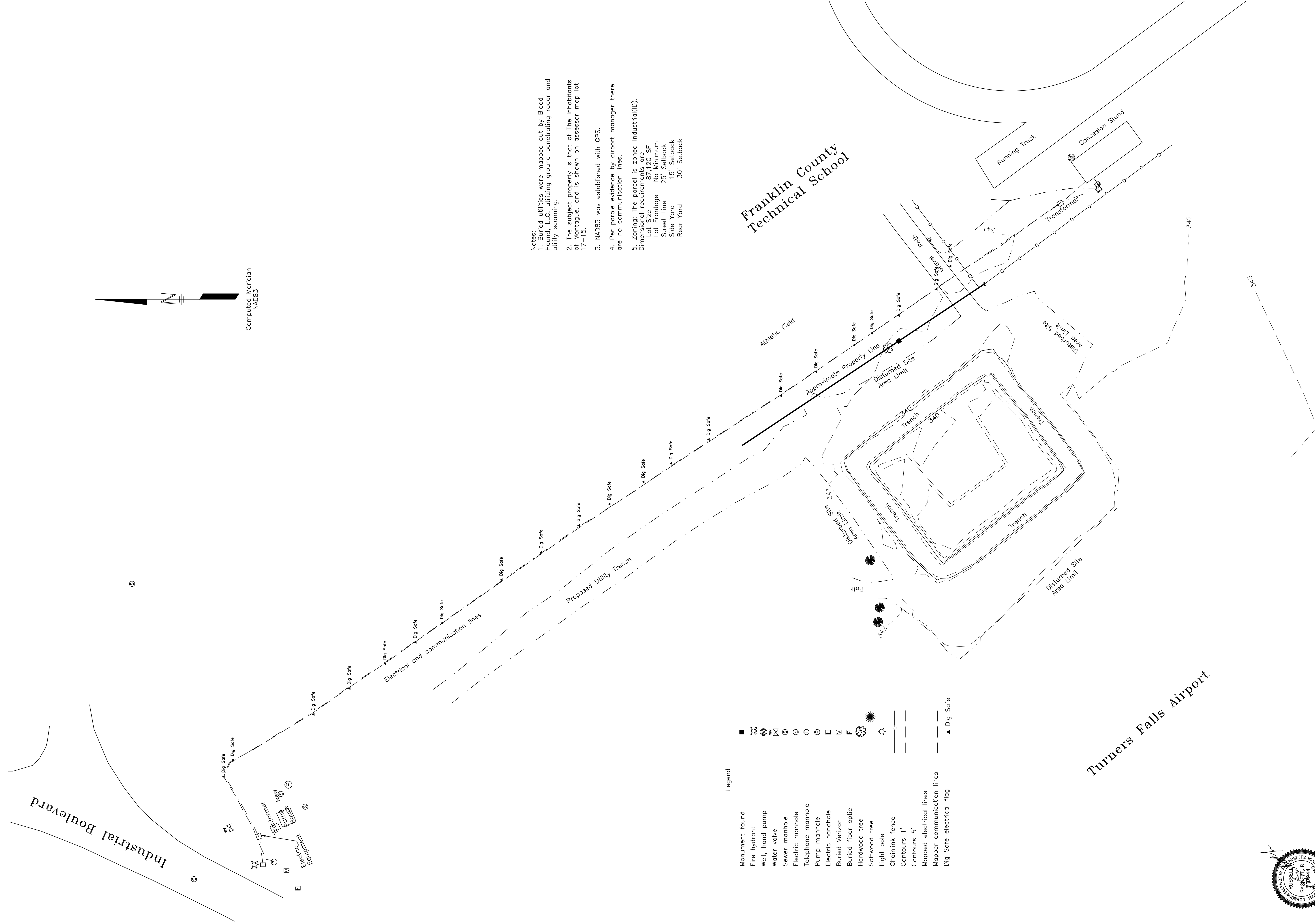
**COVER SHEET**

DRAWING NO.

**G001**

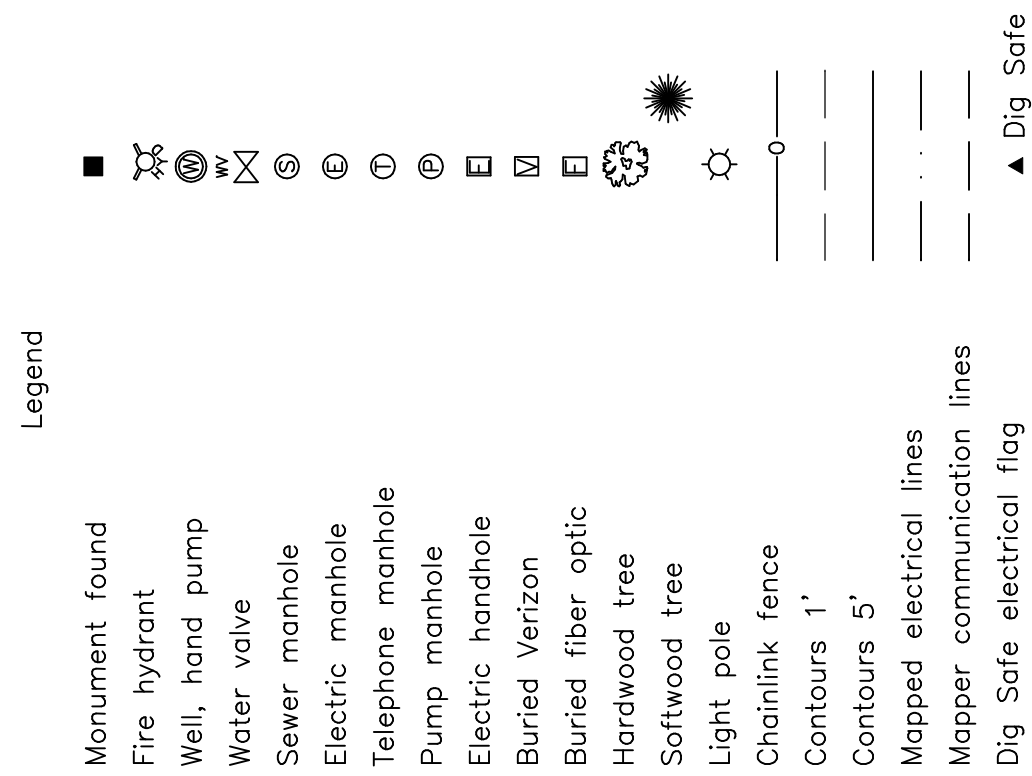
1 OF 11





- Notes:
  - Buried utilities were mapped out by Blood Hound, LLC, utilizing ground penetrating radar and utility scanning.
  - The subject property is that of The Inhabitants of Montague, and is shown on assessor map lot 17-15.
  - NADB3 was established with GPS.
  - Per parole evidence by airport manager there are no communication lines.
  - Zoning: The parcel is zoned Industrial(ID). Dimensional requirements are
 

|              |             |
|--------------|-------------|
| Lot Size     | 87,120 SF   |
| Lot Frontage | No Minimum  |
| Street Line  | 25' Setback |
| Side Yard    | 15' Setback |
| Rear Yard    | 30' Setback |

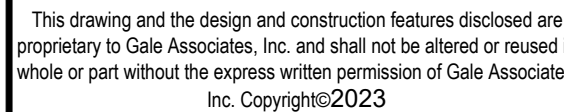


10/12/23

[illegible]

# HUNTLEY

**HUNTLEY ASSOCIATES, P.C.**  
LAND SURVEYORS - ENGINEERS  
179 First Street Pittsfield, MA 01201  
(413) 499-2285 Fax (413) 499-0038



NOT FOR CONSTRUCTION

|         |   |
|---------|---|
| PROJECT | ACADEMIC HANGAR<br>TURNERS FALLS MUNICIPAL AIRPORT                                  |
| OWNER   | TURNERS FALLS MUNICIPAL AIRPORT<br>1 AVENUE A<br>TURNERS FALLS, MASSACHUSETTS 01376 |

|               |      |             |    |
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|               |      |             |    |
|               |      |             |    |
| NO.           | DATE | DESCRIPTION | BY |
| PROJECT NO.   |      | 719300      |    |
| CADD FILE     |      | 719300_C002 |    |
| DESIGNED BY   |      | CRR/SMB     |    |
| DRAWN BY      |      | CRR         |    |
| CHECKED BY    |      | SMB         |    |
| DATE          |      | 11/10/23    |    |
| DRAWING SCALE |      | 1" = 20'    |    |

GRAPHIC SCALE

0' 10' 20' 40'

A horizontal scale bar with four segments. The first segment is labeled '0'', the second '10'', the third '20'', and the fourth '40''. The segments are of equal length, representing 10-foot intervals.

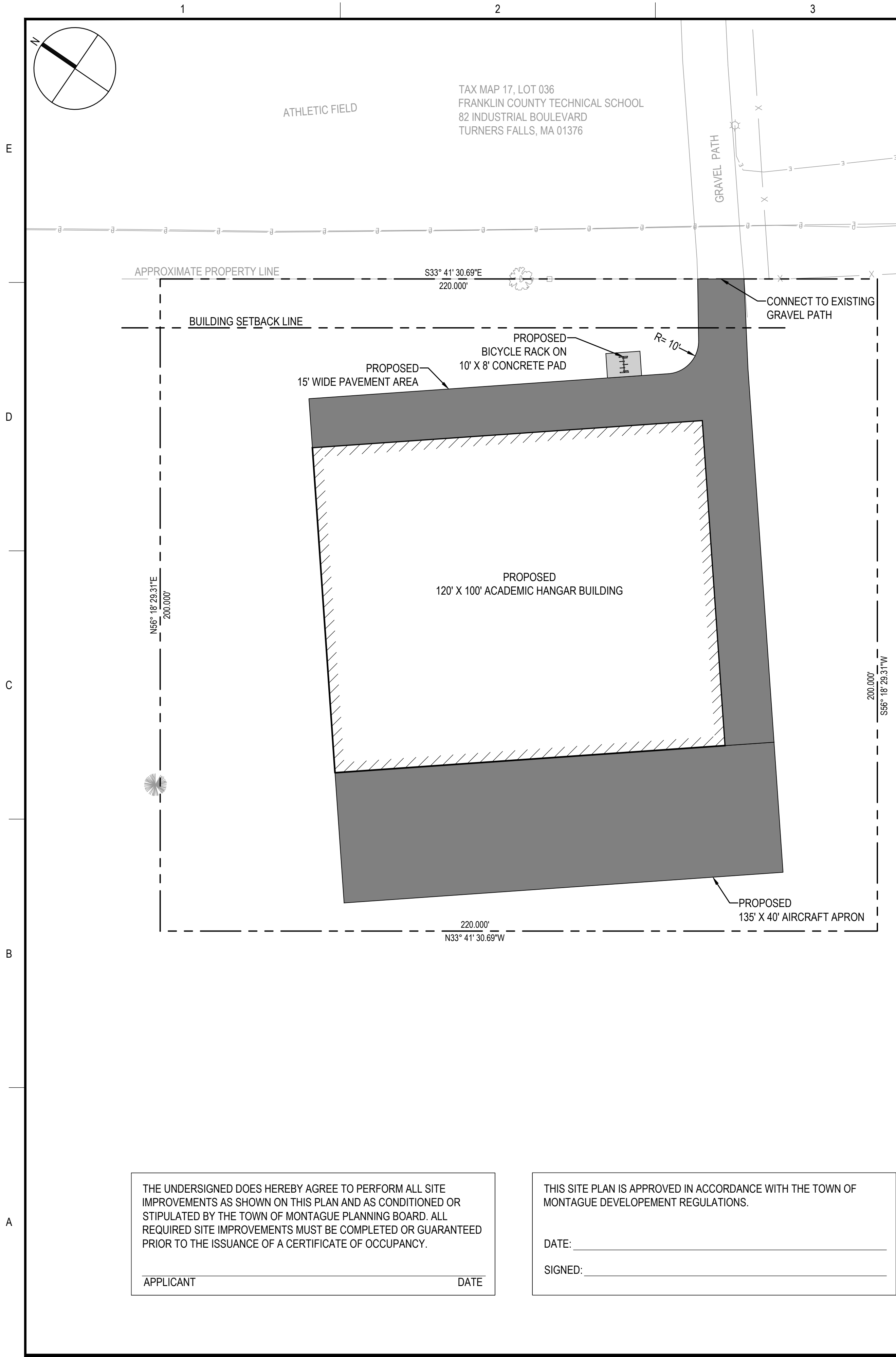
SHEET TITLE

DEMOLITION PLAN

DRAWING NO.

C002

3 OF



| ZONING ANALYSIS TABLE  |                  |          |          |
|--|------------------|----------|----------|
| ZONING DISTRICT  | INDUSTRIAL (ID)  |          |          |
| ZONE CRITERIA  | REQUIRED         | EXISTING | PROPOSED |
| MINIMUM LOT AREA   | 87,120 S.F.      | N/A      | 44,000'  |
| MINIMUM LOT WIDTH  | 160'             | N/A      | 200'     |
| MINIMUM FRONTAGE   | N/A              | N/A      | N/A      |
| MINIMUM FRONT SETBACK  | 25'              | N/A      | 450'     |
| MINIMUM SIDE SETBACK   | 15'              | N/A      | 43'      |
| MINIMUM REAR SETBACK   | 30'              | N/A      | N/A      |
| MAXIMUM HEIGHT   | 50'              | N/A      | 34.5'    |
| PARKING SPACES   | 1 PER 1,000 S.F. | 0        | 12       |
| PARKING CALCULATION: PARKING CALCULATION: 12,000 SF / 1,000 SF = 12 SPACES, TO BE LOCATED ON FRANKLIN COUNTY TECHNICAL SCHOOL PROPERTY |                  |          |          |

| SITE PLAN LEGEND |                     |          |
|------------------|---------------------|----------|
| EXISTING         | DESCRIPTION         | PROPOSED |
|                  | BITUMINOUS PAVEMENT |          |
|                  | CONCRETE            |          |
|                  | BUILDING            |          |
|                  | GRAVEL              |          |
|                  | CHAIN LINK FENCE    |          |
|                  | PROPERTY LINE       |          |
|                  | PROPERTY BOUND      |          |
|                  | TREE                |          |
|                  | LIGHT POST          |          |

- SITE PLAN NOTES
- APPLICANT: TURNERS FALLS MUNICIPAL AIRPORT  
1 AVENUE A  
TURNERS FALLS, MA 01376
  - OWNER: TURNERS FALLS MUNICIPAL AIRPORT  
1 AVENUE A  
TURNERS FALLS, MA 01376
  - LOT SHOWN ON ASSESSOR'S SHEET PARCEL IDENTIFICATION 17-0-015, IN THE TOWN OF MONTAGUE, OF FRANKLIN COUNTY, AND THE STATE OF MASSACHUSETTS.
  - TOPOGRAPHIC AND PROPERTY BOUNDARY INFORMATION WAS OBTAINED BY HUNTLEY ASSOCIATES, P.C. OF PITTSFIELD, MASSACHUSETTS. BURIED UTILITIES WERE LOCATED BY BLOUND HOUND, LLC OF BOSTON, MASSACHUSETTS. MA STATE PLAN COORDINATE AND ELEVATIONS ARE DERIVED BY MA STATE PLAN AND NORTH AMERICAN VERTICAL DATUM 1983 (NAD83).
  - THE PURPOSE OF THIS PLAN IS TO SHOW THE EXISTING LAND USE AND SITE LAYOUT FOR A 12,000 SQUARE FOOT EDUCATIONAL HANGAR AND ASSOCIATED SITE IMPROVEMENTS. PARKING FOR FACILITY, STAFF, AND/OR STUDENTS ASSOCIATED WITH THE ACADEMIC HANGAR SHALL BE PROVIDED BY FRANKLIN COUNTY TECHNICAL SCHOOL AND LOCATED ON SCHOOL PROPERTY WHILE THE FACILITY IS LEASED FROM THE OWNER
  - SITE SERVICES TO BE MUNICIPAL WATER AND SEWER. UTILITIES TO BE INSTALLED BY THE TURNERS FALLS WATER DEPARTMENT AND THE MONTAGUE CLEAN WATER FACILITY; RESPECTIVELY.
  - WITH THE EXCEPTION OF BUILDING EGRESS DOOR LIGHTING, NO EXTERIOR LIGHTING IS PROPOSED.
  - SITE IMPROVEMENTS DEPICTED ON THE PLAN SHALL CONFORM TO THE MOST CURRENT EDITION OF THE AMERICAN DISABILITY ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN WITH REGARDS TO DIMENSIONS AND GRADES.
  - IT SHALL BE UNLAWFUL TO MODIFY, CHANGE, OR ALTER ANY STRUCTURE SHOWN ON THIS PLAN IN ANY WAY, TO CONVERT OR ALTER ANY STRUCTURE SHOWN ON THIS PLAN, OR CHANGE THE ABOVE USE INDICATED ON THIS PLAN WITHOUT RECEIVING PRIOR APPROVAL FROM THE TOWN OF MONTAGUE PLANNING BOARD.
  - THE APPLICANT SHALL SUBMIT A COPY OF ALL ENVIRONMENTAL PERMITS OBTAINED TO THE TOWN OF MONTAGUE PLANNING BOARD PRIOR TO CONSTRUCTION AND PROVIDE ANNUAL UP-DATES OF STORMWATER POLLUTION PREVENTION PLAN (S.W.P.P.) CONTACT INFORMATION.
  - THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING ANY NECESSARY RIGHT-OF-WAYS AND EASEMENTS. HOWEVER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THE OWNER HAS SECURED ANY NECESSARY EASEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE APPLICABLE PROVISIONS OF EACH EASEMENT AS THEY APPLY TO THE WORK AND ABIDE BY THOSE PROVISIONS DURING CONSTRUCTION.
  - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT'S SCOPE OF WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS, RELATIVE TO THE SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER-OF-RECORD, IN WRITING, PRIOR TO THE INITIATION OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK DEFINED BY THE DRAWINGS AND IN FULL CONFORMANCE WITH LOCAL, STATE, AND FEDERAL CODES AND REGULATIONS.
  - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT DIG SAFE (888-DIG-SAFE) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.
  - THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.).
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS PRIOR TO CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE APPLICABLE PROVISIONS OF EACH PERMIT AS THEY APPLY TO THE WORK AND ABIDE BY THOSE PROVISIONS DURING CONSTRUCTION.
  - CONTRACTOR SHALL INSTALL AND MAINTAIN AVIATION TRAFFIC CONTROL DEVICES AS NECESSARY AND IN A MANNER CONSISTENT WITH THE MOST CURRENT EDITION OF THE FEDERAL AVIATION ADMINISTRATION (FAA) OPERATION SAFETY ON AIRPORTS DURING CONSTRUCTION (AC-150/5370-2G).
  - CONTRACTOR SHALL INSTALL AND MAINTAIN TRAFFIC CONTROL DEVICES AS NECESSARY AND IN A MANNER CONSISTENT WITH THE MOST CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.).
  - THE CONTRACTOR IS REQUIRED TO SUBMIT AN AVIATION AND TRAFFIC CONTROL PLAN TO THE AIRPORT MANAGER OF THE TURNERS FALLS MUNICIPAL AIRPORT PRIOR TO PERFORMING ANY ACTIVITIES WITHIN THE AIRPORT PROPERTY. THE TOWN OF MONTAGUE POLICE DEPARTMENT (413-863-8911), TURNERS FALLS FIRE DEPARTMENT (413-863-3210), TOWN OF MONTAGUE PUBLIC WORKS (413-863-2054), AND TURNERS FALLS MUNICIPAL AIRPORT (413-863-0044) ARE TO BE NOTIFIED AT LEAST 24 HOURS IN ADVANCE OF ANY STREET CLOSING OR DETOUR.
  - THE CONTRACTOR SHALL FURNISH AND MAINTAIN A TELEPHONE NUMBER WHERE THE CONTRACTOR CAN BE REACHED 24 HOURS A DAY, 7 DAYS A WEEK, UNTIL THE PROJECT HAS REACHED SUBSTANTIAL COMPLETION.
  - ALL DISTURBED AREAS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL DISTURBED AREAS SHALL NOT BE LEFT BARE FOR MORE THAN 30 DAYS, SHALL BE STABILIZED IN A MANNER TO MITIGATE EROSION OR SEDIMENTATION FROM EXITING THE LIMIT OF WORK AND SHALL BE RESTORED IN-KIND UPON COMPLETION OF THE PROJECT. THE MAXIMUM AREA ALLOWED TO BE DISTURBED AND LEFT UNSTABILIZED IS TWO (2) ACRES AT ANY ONE TIME. SEE EROSION & SEDIMENTATION CONTROL NOTES SHEET FOR FURTHER DETAIL.
  - SUITABLE EXCAVATED MATERIALS MAY BE INCORPORATED INTO THE PROJECT. THIS PROVISION SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THEIR OBLIGATIONS TO REMOVE AND DISPOSE OF ANY MATERIAL DETERMINED BY THE CONTRACTING OFFICER TO BE UNSUITABLE FOR BACKFILLING OR EXCESS SUITABLE MATERIAL.
  - EXISTING SIGNS IMPACTED BY THIS PROJECT SHALL BE RESET AT NO ADDITIONAL COST TO THE OWNER. PLACEMENT SHALL CONFORM TO THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.).
  - ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF MONTAGUE AND THE STATE OF MASSACHUSETTS DEPARTMENT OF TRANSPORTATION CONSTRUCTION STANDARDS AS APPLICABLE.
  - ALL RADII ARE TO THE OUTSIDE FACE.

**GALE**

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Engineers and Planners

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PROJECT

ACADEMIC HANGAR  
TURNERS FALLS MUNICIPAL AIRPORT

OWNER

TURNERS FALLS MUNICIPAL AIRPORT  
1 AVENUE A  
TURNERS FALLS, MASSACHUSETTS 01376

| NO.            | DATE        | DESCRIPTION | BY |
|----------------|-------------|-------------|----|
| PROJECT NO.    | 719300      |             |    |
| CADD FILE      | 719300_C101 |             |    |
| DESIGNED BY    | CRR/SMB     |             |    |
| DRAWN BY       | CRR         |             |    |
| CHECKED BY     | SMB         |             |    |
| DATE           | 11/10/23    |             |    |
| DRAWING SCALE  | 1" = 20'    |             |    |
| GRAPHIC SCALE  |             |             |    |
| 0' 10' 20' 40' |             |             |    |

SHEET TITLE

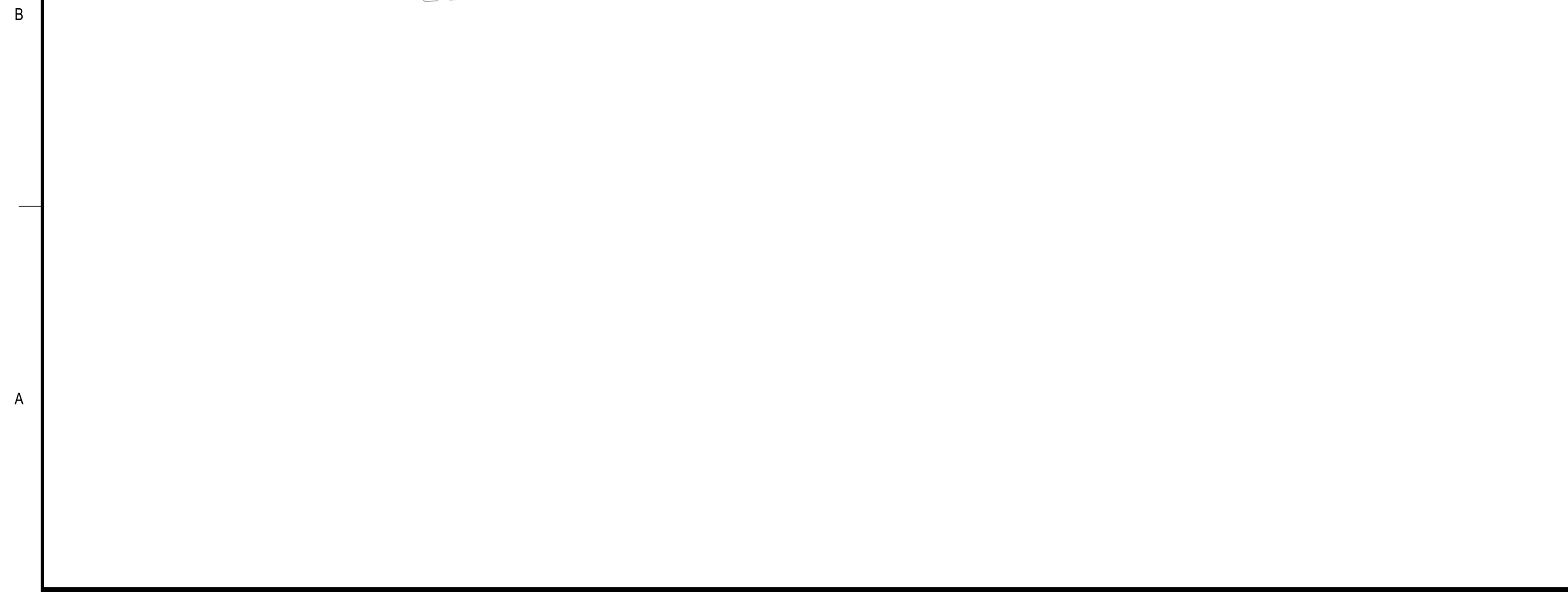
SITE PLAN

DRAWING NO.

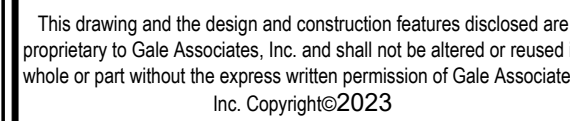
C101

4 OF 11





1. CONTRACTOR SHALL CONSTRUCT TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL FACILITIES PRIOR TO THE COMMENCEMENT OF EARTHWORK OPERATIONS. EROSION CONTROL MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, ITEMS IDENTIFIED WITHIN THIS PLAN SET OR WITHIN THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION (MASDEP) BEST MANAGEMENT PRACTICES (BMP'S) FOR EROSION CONTROL. SEE EROSION CONTROL PLAN AND EROSION CONTROL NOTES & DETAIL SHEET FOR SUPPLEMENTAL INFORMATION.
2. THE CONTRACTOR SHALL MAINTAIN EROSION AND SEDIMENTATION CONTROL DEVICES THROUGHOUT THE PROJECT SITE FOR THE DURATION OF THE CONSTRUCTION. THE CONTRACTOR SHALL (DAILY OR AS REQUIRED BASIS) INSPECT AND RECORD FINDINGS OF ALL EROSION AND SEDIMENTATION CONTROL DEVICES TO ENSURE THAT ALL ITEMS ARE IN STABLE CONDITION. IN THE EVENT THAT SAID ITEMS ARE DETERMINED TO BE IN UNSATISFACTORY CONDITION, THE CONTRACTOR SHALL RECORD THE UNSATISFACTORY ISSUE, THE DATE OF THE UNSATISFACTORY FINDING, THE APPROPRIATE CORRECTIVE MEASURE AND THE DATE THE CORRECTIVE MEASURE WAS COMPLETED.
3. ALL DISTURBED AREAS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL DISTURBED AREAS SHALL NOT BE LEFT BARE FOR MORE THAN 30 DAYS, SHALL BE STABILIZED IN A MANNER TO MITIGATE EROSION OR SEDIMENTATION FROM EXITING THE LIMIT OF WORK AND SHALL BE RESTORED IN-KIND UPON COMPLETION OF THE PROJECT. SEE GENERAL NOTES OF DEMOLITION SHEET FOR LIMIT OF WORK BOUNDARY DEFINITION. THE MAXIMUM AREA ALLOWED TO BE DISTURBED AND LEFT UNSTABILIZED IS TWO ACRES PER DRAINAGE AREA.
4. THE CONTRACTOR SHALL NOT PLACE PERMANENT PLANTING AND SEEDING PRIOR TO MAY 1st AND AFTER SEPTEMBER 1st.
5. IN GENERAL, VEGITATED FINISH GRADES AROUND BUILDINGS SHALL BE 6 INCHES LOWER THAN FINISH FLOOR ELEVATIONS, UNLESS OTHERWISE NOTED.
6. FINISH GRADES OF SIDEWALKS AT BUILDING ENTRANCES SHALL BE 1/4 OF AN INCH LOWER THAN FINISH FLOOR ELEVATION.
7. ALL SIDEWALKS SHALL BE IN ACCORDANCE WITH THE AMERICAN DISABILITY ACT (ADA) REQUIREMENTS, UNLESS OTHERWISE NOTED.



**NOT FOR CONSTRUCTION**

TURNERS FALLS MUNICIPAL AIRPORT  
1 AVENUE A  
TURNERS FALLS, MASSACHUSETTS 01376

GRAPHIC SCALE

0' 10' 20' 40'

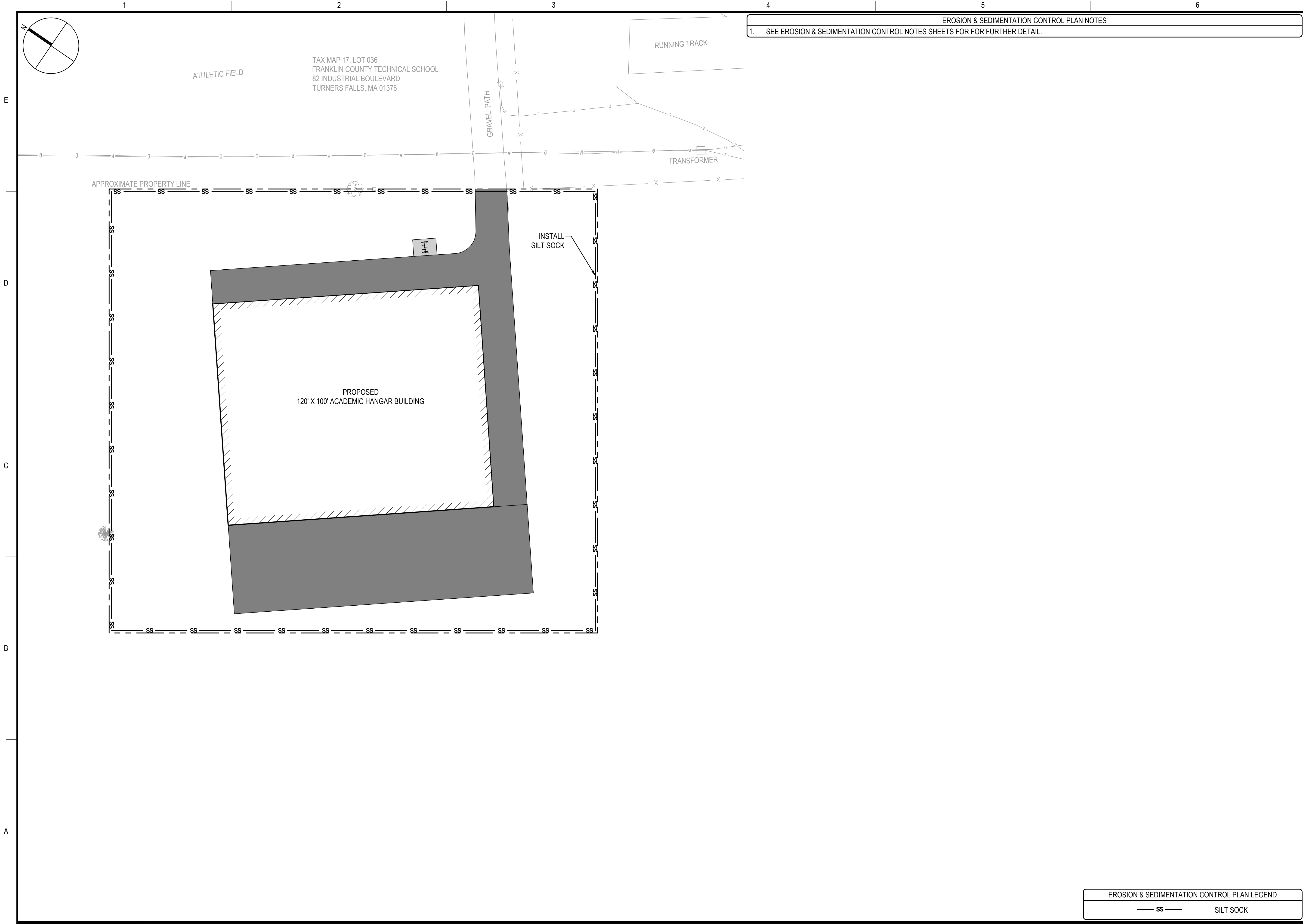
A horizontal scale bar with alternating black and white segments. The segments are labeled 0', 10', 20', and 40' from left to right. The bar is divided into four equal segments, each representing 10 feet.


# GRADING & DRAINAGE PLAN

|             |
|-------------|
| DRAWING NO. |
| C102        |
| 5 OF 11     |



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PROJECT

ACADEMIC HANGAR  
TURNERS FALLS MUNICIPAL AIRPORT

OWNER

TURNERS FALLS MUNICIPAL AIRPORT  
1 AVENUE A  
TURNERS FALLS, MASSACHUSETTS 01376

| NO.           | DATE        | DESCRIPTION | BY |
|---------------|-------------|-------------|----|
| PROJECT NO.   | 719300      |             |    |
| CADD FILE     | 719300_C103 |             |    |
| DESIGNED BY   | CRR/SMB     |             |    |
| DRAWN BY      | CRR         |             |    |
| CHECKED BY    | SMB         |             |    |
| DATE          | 11/10/23    |             |    |
| DRAWING SCALE | 1" = 20'    |             |    |

GRAPHIC SCALE

0' 10' 20' 40'

SHEET TITLE

EROSION &  
SEDIMENTATION  
CONTROL PLAN

DRAWING NO.

C103

6 OF 11




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|   |   |
|---|---|
| GENERAL EROSION & SEDIMENTATION CONTROL PLAN NOTES  |   |
| THIS PLAN HAS BEEN DEVELOPED AS A STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION. THIS PLAN IS BASED ON THE STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION IN DEVELOPING AREAS AS CONTAINED IN THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION (MASSDEP) STORMWATER HANDBOOK AND STORMWATER STANDARDS. THE PROPOSED LOCATIONS OF EROSION CONTROL BEST MANAGEMENT PRACTICES (TO BE INSTALLED AT A MINIMUM) ARE SHOWN ON THE PLAN SET HEREIN. |   |
| 1.  | ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE IN ACCORDANCE WITH THE "MASSACHUSETTS STORMWATER HANDBOOK", PUBLISHED BY THE MASSACHUSETTS DEPARTMENT OF ENVIROMENTAL PROTECTION (MASSDEP); DATED FEBURARY 2008 (OR CURRENT EDITION).   |
| 2.  | THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION SHALL BE MAINTAINED IN AN UNTREATED OR UNVEGETATED CONDITION FOR THE MINIMUM TIME REQUIRED. IN GENERAL, ALL DISTURBED AREAS SHALL NOT BE LEFT BARE FOR MORE THAN 30 DAYS, SHALL BE STABILIZED IN A MANNER TO MITIGATE EROSION OR SEDIMENTATION FROM EXITING THE LIMIT OF WORK AND SHALL BE RESTORED IN-KIND UPON COMPLETION OF THE PROJECT. THE MAXIMUM AREA ALLOWED TO BE DISTURBED AND LEFT UNSTABILIZED IS TWO (2) ACRES AT ANY ONE TIME  |
| 3.  | IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT, MONITOR AND MAINTAIN ALL EROSION CONTROL STRUCTURES; SEE EROSION CONTROL - INSPECTION, MONITORING & MAINTENANCE NOTES LOCATED HEREIN.  |
| 4.  | SEDIMENT BARRIERS (SILT FENCE, STONE CHECK DAMS, STABILIZED CONSTRUCTION ENTRANCES, ETC.) SHALL BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF UP-GRADIENT DRAINAGE AREAS.   |
| 5.  | ALL EXISTING STORM DRAINAGE INLETS SHALL BE PROTECTED BY STRAW BALE FILTERS AND CATCH BASIN FILTER BASKETS TO PREVENT ENTRY OF SEDIMENT FROM RUNOFF WATERS INTO THE STORM DRAIN SYSTEM.   |
| 6.  | NO TREES ARE TO BE REMOVED FROM AREAS OUTSIDE THE LIMITS OF GRADING OR FROM SPECIFICALLY DESIGNATED UNDISTURBED AREAS WITHIN THE CONSTRUCTION AREA. IF TREES DESIGNATED TO BE SAVED ARE DAMAGED, CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING THEM AT NO COST TO THE OWNER OR OWNER'S REPRESENTATIVE.  |
| 7.  | SLOPES, EITHER PERMANENT OR TEMPORARY, BETWEEN SLOPES THREE HORIZONTAL TO ONE VERTICAL (3:1) TO TWO HORIZONTAL TO ONE VERTICAL (2:1) SHALL BE STABILIZED WITH EROSION CONTROL BLANKETS AND ANCHORED MULCH NETTING (100% BIODEGRADABLE - PLASTIC NETTING WILL NOT BE ALLOWED - AND BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS, SEE DETAIL). SLOPES STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1) SHALL BE STABILIZED WITH RIPRAP.  |
| 8.  | CUT AND FILL AREAS ARE TO BE PERMANENTLY STABILIZED AS SOON AS PRACTICABLE BUT NO LATER THAN 72 HOURS FOLLOWING FINAL GRADING.  |
| 9.  | ALL AREAS OF EXPOSED OR DISTURBED SOIL OTHER THAN THE NEWLY STABILIZED STREAM BANK TO BE STABILIZED AS SOON AS PRACTICABLE BUT NO LATER THAN 45 DAYS FROM THE TIME OF INITIAL DISTURBANCE, UNLESS A SHORTER TIME IS SPECIFIED BY LOCAL AUTHORITIES, THE CONSTRUCTION SEQUENCE APPROVED AS PART OF THE ISSUED PERMIT, OR AN INDEPENDENT MONITOR.   |
| 10.   | PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS ARE NOT MULCHED, SEED SHOULD BE PLACED FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS (NOVEMBER THROUGH MARCH). SEE WINTER CONSTRUCTION NOTES. PLANT ANNUAL RYE GRASS PRIOR TO OCTOBER 15TH.  |
| 11.   | AFTER OCTOBER 15TH: WHERE MULCH IS USED, IT SHALL BE APPLIED AT TWICE THE RATE AS DURING REGULAR CONSTRUCTION SEASON TO PROVIDE ADDITIONAL PROTECTION. SNOW AND ICE SHALL BE REMOVED TO A THICKNESS LESS THAN ONE INCH BEFORE APPLYING MULCH (IF APPLICABLE) TO DISTURBED SOILS. WHERE FINISHED GRADE IS ACHIEVED, OR BEFORE FORECASTED THAW OR SPRING MELT, MULCH MUST BE SECURED WITH EROSION CONTROL NETTING, TRACKING, OR OTHER METHOD. DIVERSION SWALES OR DITCHES WITHOUT STABILIZED VEGETATION BY OCTOBER 15TH SHALL BE STABILIZED WITH STONE FILL OR EROSION CONTROL NETTING AS APPROVED BY OWNER OR OWNER'S DESIGNATED REPRESENTATIVE. |
| 12.   | SPECIES CONSIDERED LOCALLY INVASIVE OR NOXIOUS MAY NOT BE USED.   |
| 13.   | USE ONLY NON-PHOSPHATE FERTILIZERS WITHIN 20' OF SURFACE WATERS.  |
| 14.   | DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND RE-GRADED ONTO OPEN AREAS. POST SEEDING SEDIMENT, IF ANY, WILL BE DISPOSED OF IN AN ACCEPTABLE MANNER.   |
| 15.   | RE-VEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND RE-VEGETATED AS FOLLOWS:   |
| 15.1.   | A MINIMUM OF FOUR (4) INCHES OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE.   |
| 15.2.   | APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST. IF SOIL TESTING IS NOT DEEMED FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 800 POUNDS PER ACRE OR 18.4 POUNDS PER 1,000 SQUARE FEET USING 10-20-20 (N-P205-K20) OR EQUIVALENT. APPLY GROUND LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 TONS PER ACRE (138 LB PER 1,000 SQ. FT.).  |
| 15.3.   | FOLLOWING SEED BED PREPARATION, DITCHES AND BACK SLOPES WILL BE SEEDED WITH A MIXTURE OF 47% CREEPING RED FESCUE, 5% REDTOP, AND 48% TALL FESCUE. THE LAWN AREAS WILL BE SEEDED WITH A PREMIUM TURF MIXTURE OF 44% KENTUCKY BLUEGRASS, 44% CREEPING RED FESCUE, AND 12% PERENNIAL RYE GRASS: SEEDING RATE IS 1.03 LBS PER 1000 SQ. FT. LAWN QUALITY SOD MAY BE SUBSTITUTED FOR SEED.  |
| 15.4.   | HAY MULCH AT THE RATE OF 70-90 LBS PER 1000 SQUARE FEET OR A HYDRO- APPLICATION OF CELLULOSE FIBER SHALL BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER WILL BE USED ON HAY MULCH FOR WIND CONTROL.  |
| 16.   | ONCE DISTURBED AREAS HAVE BEEN STABILIZED AND VEGETATION IS ESTABLISHED, ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED. AREAS DISTURBED BY THE REMOVAL OF THE EROSION CONTROL MEASURES SHALL IMMEDIAETLY STABILIZED IN ACCORDANCE TO THE SPECIFICATIONS OF THESE DRAWINGS.  |
| 17.   | AN AREA IS CONSIDERED "STABLE" IF ONE OF THE FOLLOWING HAS OCCURRED: BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED; A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED; A MINIMUM OF 3" OF NON-EROSIVE MATERIAL (SUCH AS STONE RIP RAP OR A CERTIFIED COMPOST BLANKET) HAS BEEN INSTALLED; OR EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.   |
| 18.   | WETLANDS (EXCEPT THOSE WHICH ARE TO BE FILLED IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS) WILL BE PROTECTED WITH SILT FENCE INSTALLED AT THE EDGE OF THE WETLAND OR THE BOUNDARY OF WETLAND DISTURBANCE.  |
| 19.   | IN GENERAL, AREAS WITHIN 100 FEET OF DELINEATED WETLANDS OR STREAMS SHALL HAVE A MAXIMUM PERIOD OF EXPOSURE OF NOT MORE THAN 15 DAYS.   |
| 20.   | FOLLOW APPROPRIATE EROSION CONTROL MEASURES PRIOR TO EACH STORM IN ALL AREAS WITHIN 100 FEET OF DELINEATED WETLANDS OR STREAMS.   |
| 21.   | THE DETENTION POND SHALL NOT HAVE WATER DIRECTED TO IT UNTIL THE SLOPES HAVE ESTABLISHED A 75% VEGETATIVE GROWTH.   |
| 22.   | THE DETENTION POND EMBANKMENT WILL BE MULCHED AT TWICE THE RATE FOR HAY MULCH OR WITH AN EROSION CONTROL BARK MULCH MIX IF THEY ARE NOT FULLY STABILIZED BY NOVEMBER 15TH.  |

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| EROSION CONTROL - INSPECTION, MONITORING & MAINTENANCE |  |
| 1.   | THE CONTRACTOR SHALL PREPARE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH THE MASSACHUSETTS DEPARTMENT OF ENVIROMENTAL PROTECTION (MASSDEP) STORMWATER MANAGEMENT STANDARDS. THIS PROJECT IS EXPECTED TO DISTURB 1.0 ACRES; THEREFORE, AN US ENVIRONMENTAL PROTECTION AGENCY (EPA) - GENERAL CONSTRUCTION (GC) NOTICE OF INTENT (NOI) IS REQUIRED TO BE FILED BY THE CONTRACTOR. |
| 2.   | THE CONTRACTOR SHALL MAINTAIN INSPECTION AND REPAIR REPORTS OF EROSION AND SEDIMENT CONTROL MONITORING AND THESE SHALL BE KEPT AT THE PROJECT SITE DURING CONSTRUCTION. THE REPORTS SHALL INCLUDE THE FOLLOWING:   |
| 2.1.   | THE INSPECTION DATE;   |
| 2.2.   | NAMES, TITLES, AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION;  |
| 2.3.   | WEATHER INFORMATION AND A DESCRIPTION OF ANY DISCHARGES OCCURRING AT THE TIME OF THE INSPECTION;   |
| 2.4.   | LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE;   |
| 2.5.   | LOCATION(S) OF BMPS THAT NEED TO BE MAINTAINED;  |
| 2.6.   | LOCATION(S) OF BMPS THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION;   |
| 2.7.   | LOCATION(S) WHERE ADDITIONAL BMPS ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION; AND,  |
| 2.8.   | CORRECTIVE ACTION REQUIRED INCLUDING IMPLEMENTATION DATES  |
| 3.   | AT LEAST ONCE EVERY 7 CALENDAR DAYS AND DURING OR WITHIN 24 HOURS OF ANY RAIN EVENT IN WHICH 1/2 -INCH OF PRECIPITATION OR MORE FALLS WITHIN A 24-HOUR PERIOD. THE CONTRACTOR SHALL HAVE QUALIFIED PERSONNEL INSPECT ALL CLEARED AND GRADED AREAS OF THE CONSTRUCTION SITE AND ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES.   |
| 4.   | THIS INSPECTION WILL VERIFY THAT ALL EROSION CONTROL DEVICES ARE IN GOOD AND WORKING CONDITION. DISCHARGE LOCATIONS WILL BE INSPECTED TO VERIFY THAT SEDIMENTS ARE NOT ENTERING THE DRAINAGE SYSTEM AND ARE NOT EXITING THE PROJECT SITE. VEHICLE ACCESS LOCATIONS WILL BE INSPECTED FOR EVIDENCE OF SEDIMENT TRACKING INTO THE PUBLIC RIGHT-OF-WAY.   |
| 5.   | ANY OBSERVED ACCUMULATION OF SEDIMENT OFF THE SITE WILL BE IMMEDIATELY REMOVED AND THE AREA RESTORED TO PRE-CONSTRUCTION CONDITIONS.   |
| 6.   | TEMPORARY MEASURES: INSPECTION SHALL VERIFY THAT ANY TEMPORARY MEASURES BEING USED BY THE CONTRACTOR ARE CONSTRUCTED AND OPERATING IN ACCORDANCE WITH APPROVED STANDARDS AND SPECIFICATIONS. MEASURES SHALL BE REPAIRED AND ACCUMULATION OF SEDIMENTS SHALL BE CLEANED AS NEEDED.  |

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| EROSION CONTROL - WINTER CONSTRUCTION  |   |
| FOR SITE WORK CONSTRUCTION BETWEEN OCTOBER 15TH AND EARLY APRIL THE CONTRACTOR SHALL FOLLOW WINTER CONSTRUCTION EROSION PROTECTION METHODS AS DESCRIBED BELOW: |   |
| 1.   | CHECK ALL PERIMETER EROSION CONTROL MEASURES AND COMPLETE ANY REQUIRED MAINTENANCE AND REPAIR BEFORE THE GROUND FREEZES.  |
| 2.   | PUT IN PLACE ANY ADDITIONALLY NECESSARY EROSION CONTROL MEASURES; DIVERSION DIKES, HAY BALES, SILT FENCE, SEDIMENT TRAPS AND/OR BASINS, ETC. TO PROTECT DOWNSTREAM WATER QUALITY FROM ANTICIPATED WINTER WORK PRIOR TO GROUND FREEZING.   |
| 3.   | ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS. |
| 4.   | ALL DITCHES OR SWALES THAT DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH OR THAT ARE DISTURBED AFTER OCTOBER 15TH SHALL BE STABILIZED WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.  |
| 5.   | AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3-INCHES OF CRUSHED GRAVEL PER MASSDOT ITEM M1.03.1, OR IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER SEASON, BE CLEARED OF ANY ACCUMULATED SNOW AFTER EACH STORM EVENT.   |
| 6.   | INSPECT THE EROSION AND SEDIMENT CONTROL MEASURES MORE FREQUENTLY THAN IS SPECIFIED IN THE EROSION CONTROL INSPECTION, MONITORING, AND MAINTENANCE SPECIFICATIONS FOUND ON THIS SHEET DURING THE WINTER AND SPRING THAW MONTHS TO PREVENT FAILURE AND/OR OVERLOADING.   |
| 7.   | BEFORE PREDICTED THAWS AND/OR HEAVY RAIN EVENTS CHECK ALL MEASURES TO ENSURE THAT THEY WILL BE ABLE TO HANDLE POTENTIALLY HEAVY AND INTENSE RUNOFF AND SEDIMENTATION.   |
| 8.   | CONTRACTOR SHALL BE PREPARED TO INSTALL A SECOND LINE OF DEFENSE IF PROBLEMS WITH IN-PLACE EROSION CONTROL MEASURES OCCUR DURING WINTER THAW AND SPRING RAIN EVENTS.  |
| 9.   | AS EARLY AS PRACTICAL OF THE NEXT GROWING SEASON, CONTRACTOR SHALL STABILIZE COMPLETED AREAS WITH PERMANENT VEGETATIVE CONTROLS AS SPECIFIED ON THESE DRAWINGS.   |

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| EROSION CONTROL - SOIL STOCKPILE PRACTICES |  |
| 1.   | STOCKPILES SHALL BE LOCATE A MINIMUM OF 50 FEET AWAY FROM CONCENTRATED FLOWS OF STORMWATER, DRAINAGE COURSES, AND INLETS.  |
| 2.   | STOCKPILES SHALL BE PROTECTED FROM STORMWATER RUN-ON USING TEMPORARY PERIMETER MEASURES SUCH AS DIVERSIONS, BERMS, SANDBAGS, OR OTHER APPROVED PRACTICE.   |
| 3.   | STOCKPILES SHALL BE SURROUNDED BY SEDIMENT BARRIERS TO PREVENT MIGRATION OF MATERIAL BEYOND THE IMMEDIATE CONFINES OF THE STOCKPILES.  |
| 4.   | STOCKPILES SHALL BE PROTECTED FROM WIND EROSION CONTROL PRACTICES AS APPROPRIATE.  |
| 5.   | PROTECTION OF INACTIVE STOCKPILES:<br>5.1. COVER WITH ANCHORED TARPS OR PROTECT WITH SOIL STABILIZATION MEASURES (TEMPORARY SEED AND MULCH OR OTHER TEMPORARY STABILIZATION PRACTICE) AND TEMPORARY PERIMETER SEDIMENT BARRIERS AT ALL TIMES.<br>5.2. CONCRETE RUBBLE, ASPHALT CONCRETE RUBBLE, AGGREGATE MATERIALS, AND OTHER SIMILAR MATERIALS TO BE PROTECTED WITH TEMPORARY SEDIMENT PERIMETER BARRIERS AT ALL TIMES. IF THE MATERIALS ARE A SOURCE OF DUST, THEY ARE TO BE COVERED. |
| 6.   | PROTECTION OF ACTIVE STOCKPILES:<br>6.1. SURROUND WITH TEMPORARY LINEAR SEDIMENT BARRIERS PRIOR TO THE ONSET OF PRECIPITATION. PERIMETER BARRIERS TO BE MAINTAINED AT ALL TIMES, AND ADJUSTED AS NEEDED TO ACCOMMODATE THE DELIVERY AND REMOVAL OF MATERIALS FROM THE STOCKPILE. THE INTEGRITY OF THE BARRIER TO BE INSPECTED AT THE END OF EACH WORKING DAY.<br><br>6.2. WHEN A STORM EVENT IS PREDICTED, STOCKPILES TO BE PROTECTED WITH AN ANCHORED PROTECTIVE COVERING.              |
| 7.   | MAINTENANCE REQUIREMENTS:<br>7.1. INSPECT ALL SOIL STOCKPILES IMMEDIATELY AFTER STORM EVENTS AND AT THE FREQUENCIES SPECIFIED IN THE PROJECT EROSION AND SEDIMENT CONTROL PLAN AND IN APPLICABLE PERMITS. AT A MINIMUM, INSPECT WEEKLY DURING WET WEATHER PERIODS TO VERIFY THAT EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE AND FUNCTIONING PROPERLY.<br><br>7.2. REPAIR AND/OR REPLACE PERIMETER CONTROLS AND STOCKPILE COVERINGS AS NEEDED TO KEEP THEM FUNCTIONING PROPERLY.  |




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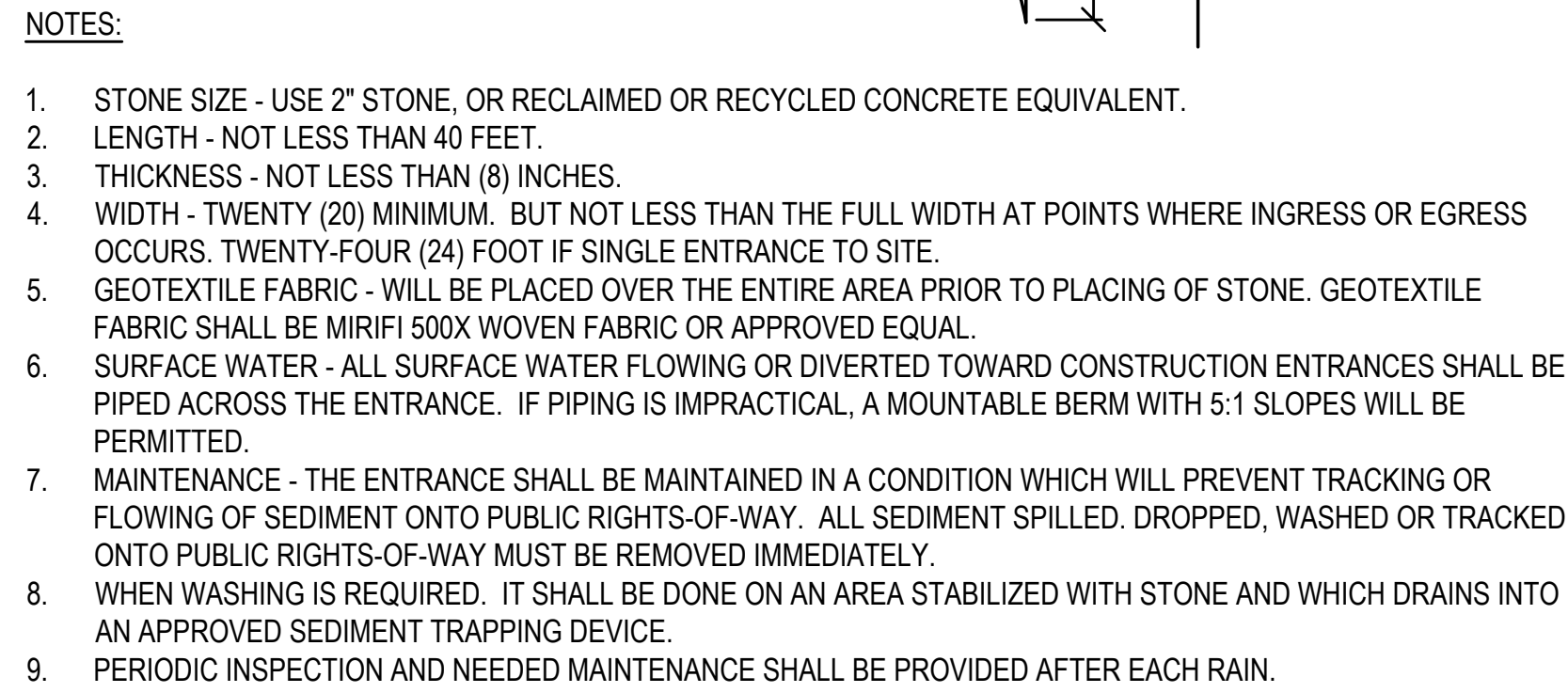
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| PROJECT NO.   | 719300      |             |             |  |  |  |
| CADD FILE   | 719300_C501 |             |             |  |  |  |
| DESIGNED BY   | CRR/SMB     |             |             |  |  |  |
| DRAWN BY  | CRR         |             |             |  |  |  |
| CHECKED BY  | SMB         |             |             |  |  |  |
| DATE  | 11/10/23    |             |             |  |  |  |
| DRAWING SCALE   | NTS         |             |             |  |  |  |
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| EROSION & SEDIMENTATION CONTROL NOTES   |             |             |             |  |  |  |
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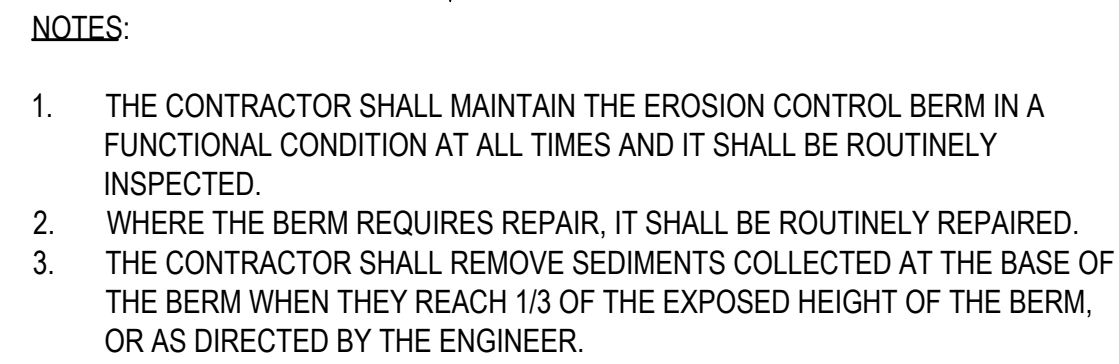




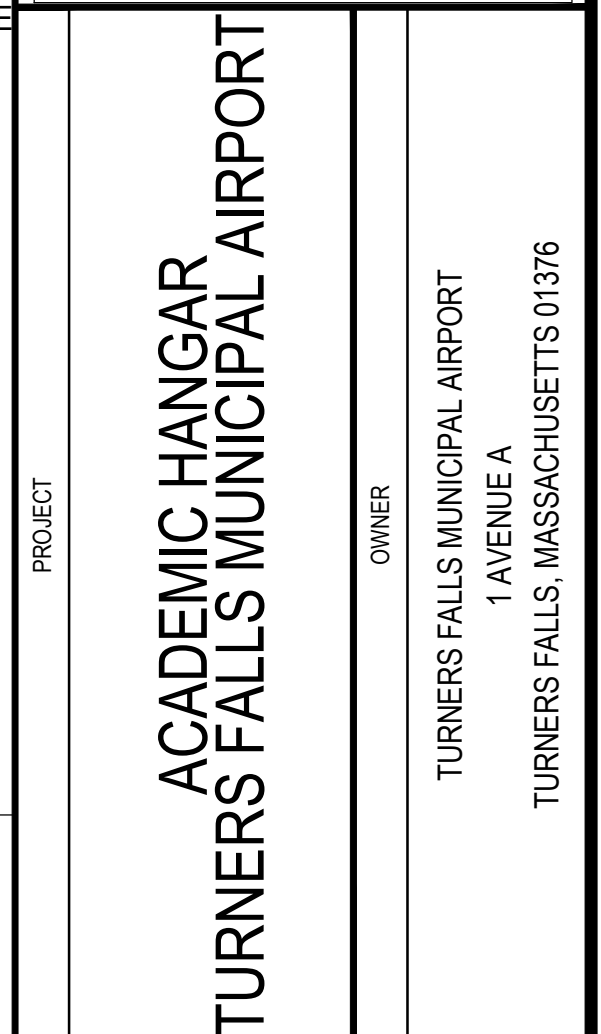
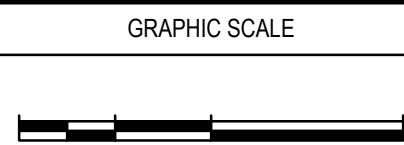




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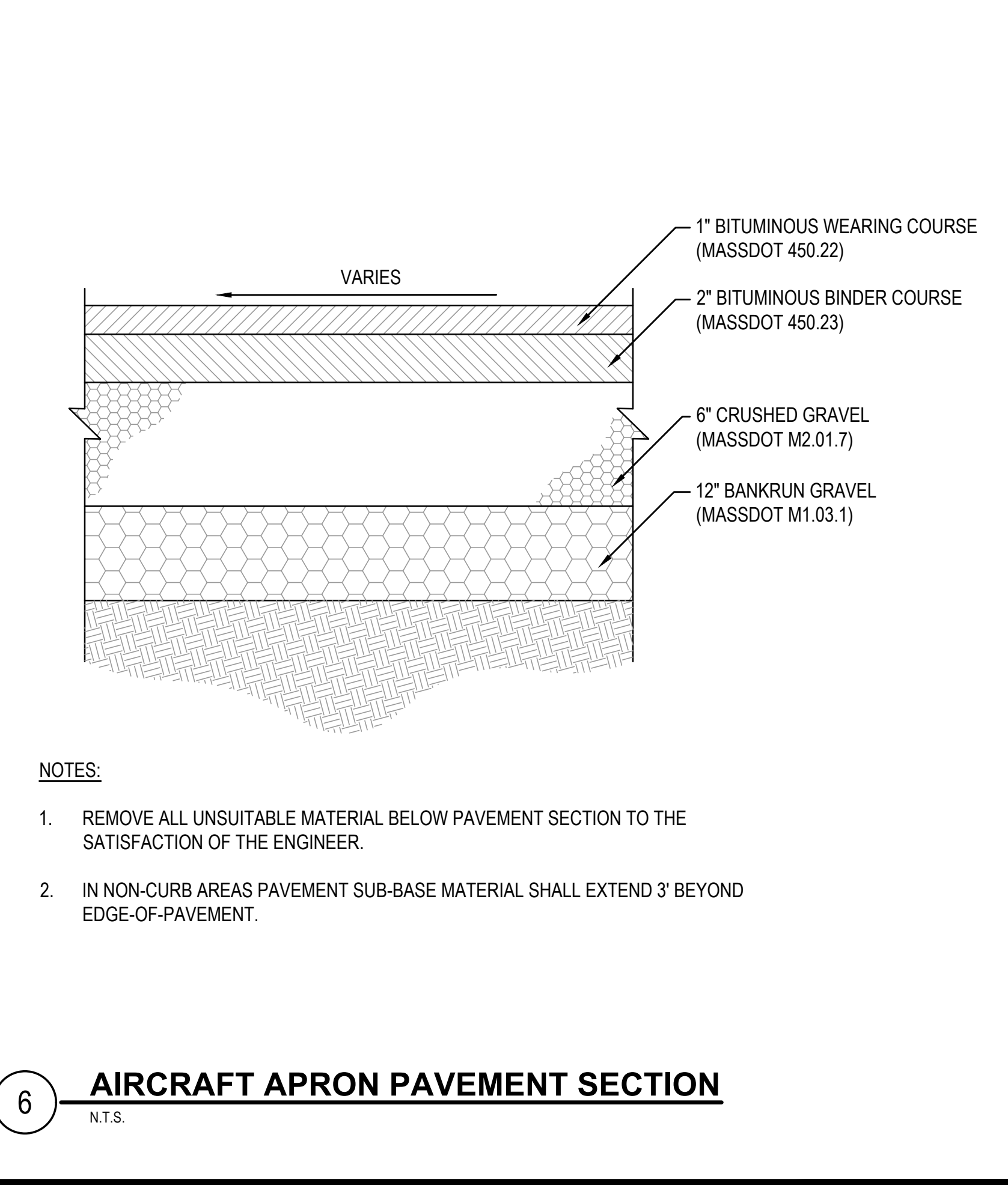
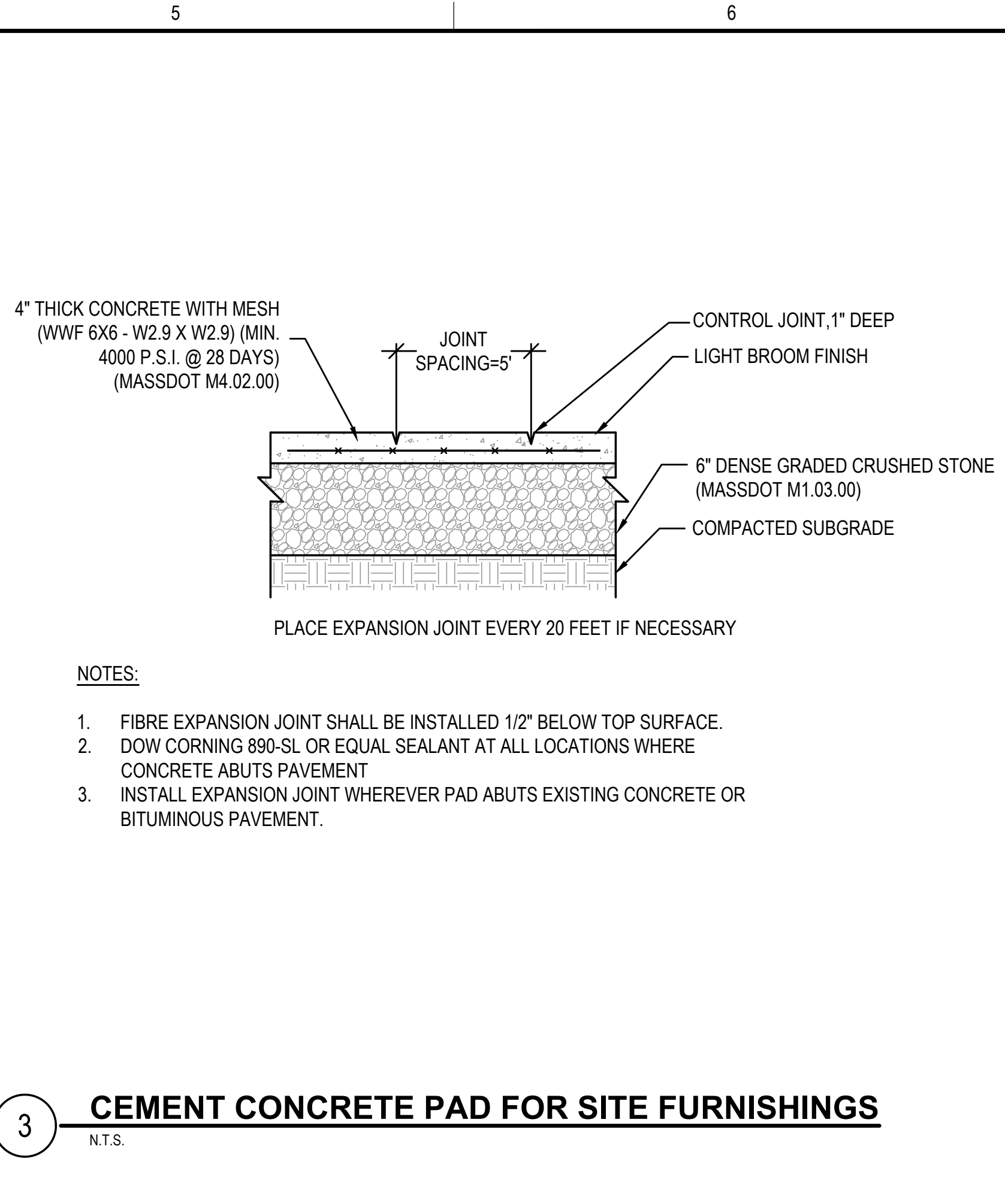
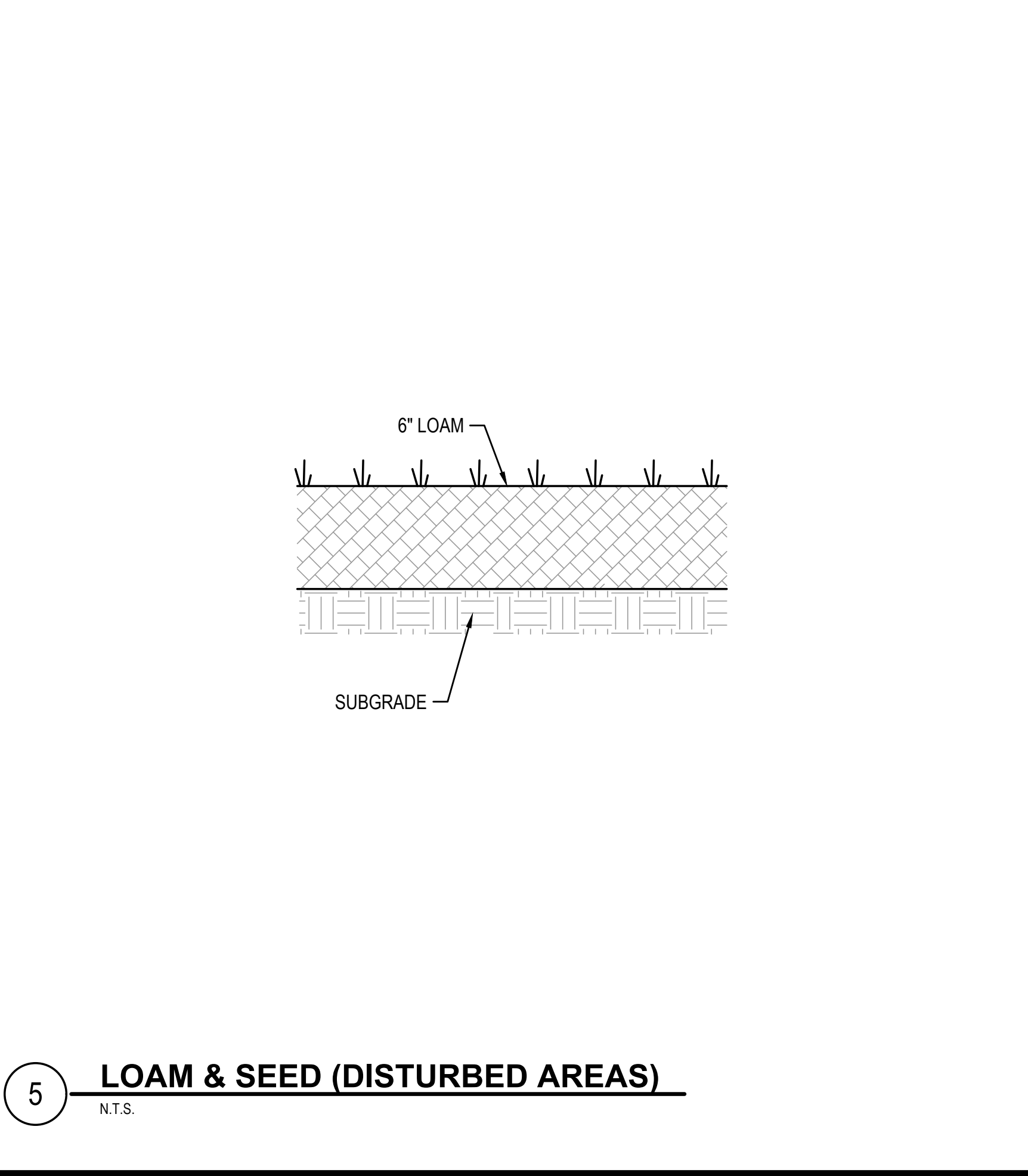
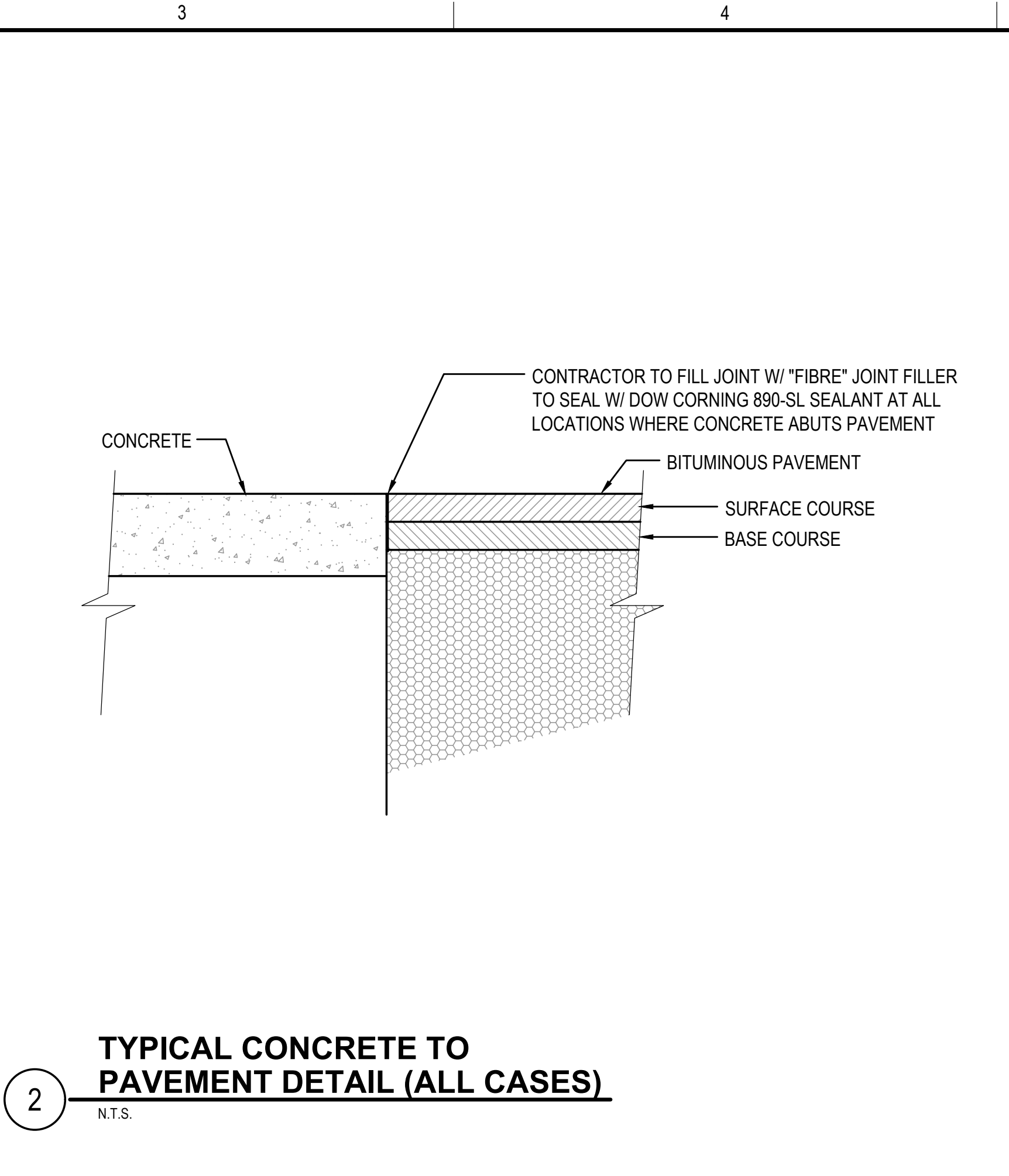
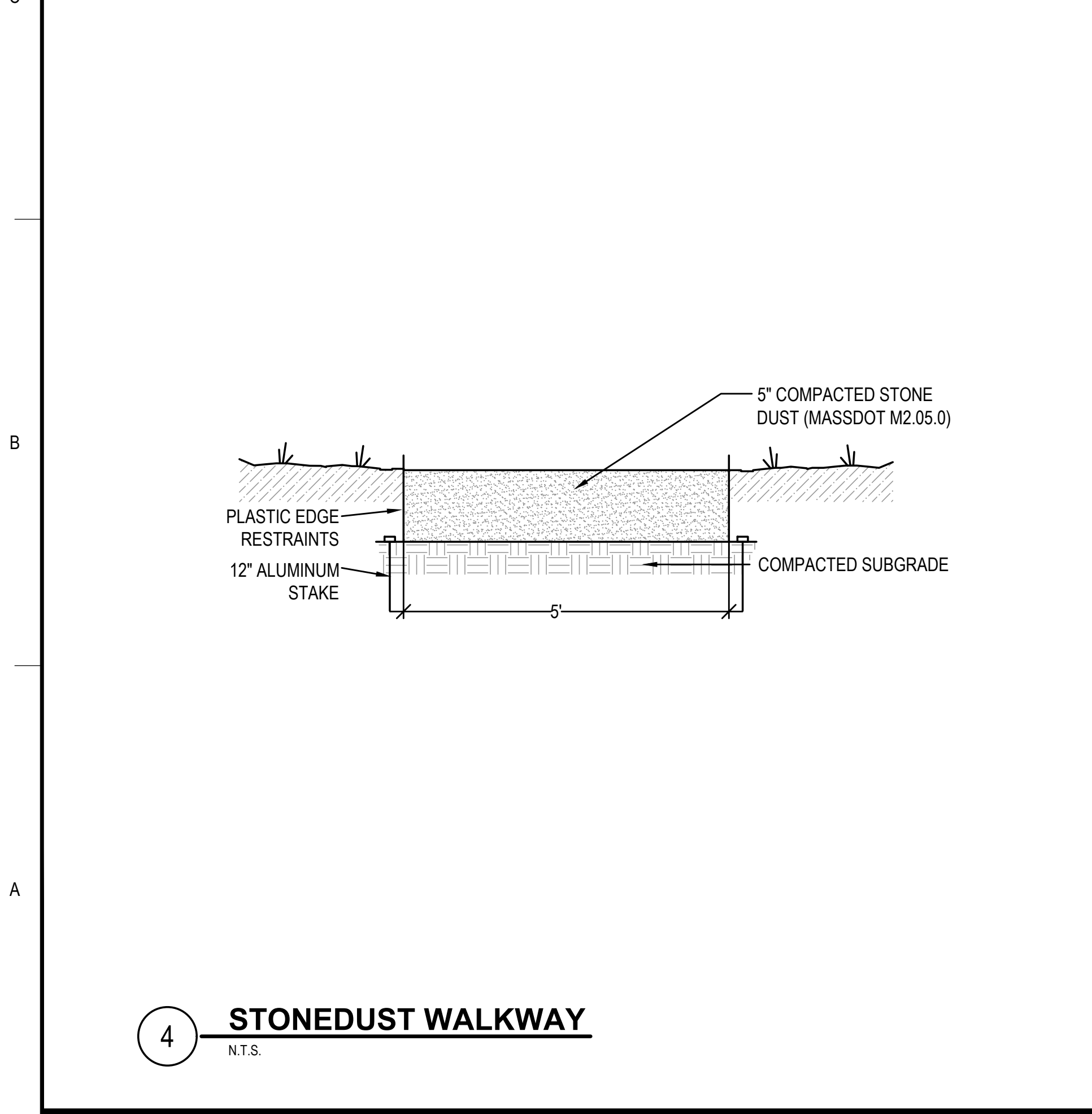
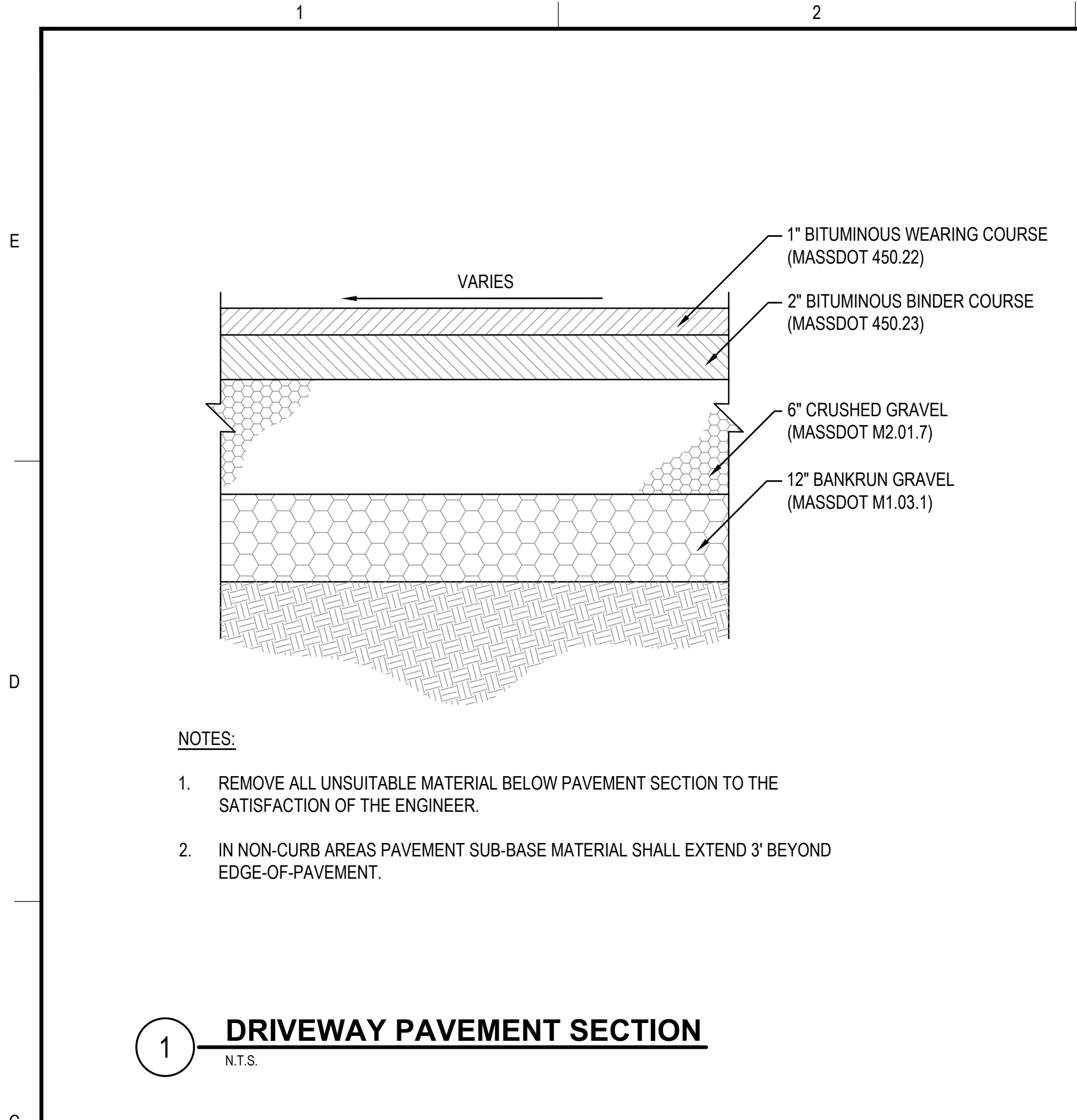
## EROSION & SEDIMENTATION CONTROL DETAILS


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| CADD FILE     | 719300_C501 |             |    |
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| DRAWN BY      | CRR         |             |    |
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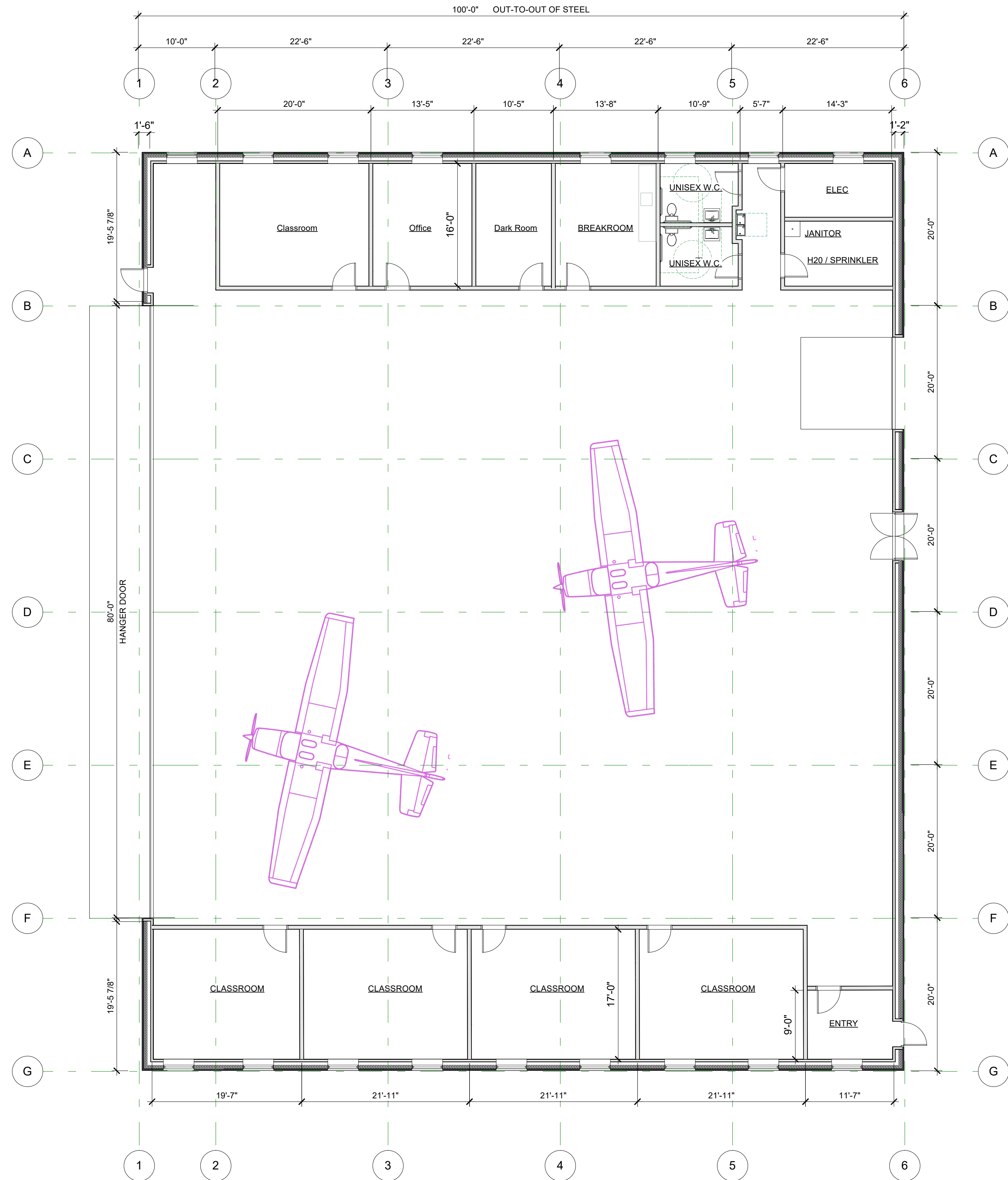
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1 First Floor Plan  
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